DME64N / DME24N
DME8i /8o/4io-C DME8i /8o/4io-ES New

DME64N Front

DME64N Rear

DME24N Front

DME24N Rear

CobraNet™

DME8i-C Front

DME8i-C Rear

DME8o-C Front

DME4io-C Front

DME8o-C Rear

DME4io-C Rear

Ether ES Sound

DME8i-ES Front

DME8i-ES Rear

DME8o-ES Front

DME4io-ES Front

DME8o-ES Rear

DME4io-ES Rear

Yamaha's DME series Digital Mixing Engines are digital processing engines that can perform the functions of multiple audio processors such as mixers, equalizers, compressors, speaker processors, feedback suppressors, and much, much more. They can quickly and easily be inter-connected as required via an intuitive software interface, and easily reconfigured whenever a change is needed.

DME64N features

- Enormous DSP power is on par with the Yamaha DM1000 Digital Mixing Console.
- Four Mini-YGDAI card slots provide I/O flexibility.
- Control interfaces include RS232/422, 16 In/Out GPI, USB, Ethernet and MIDI.
- Can cascade up to 8 units.
- 96kHz processing delivers outstanding audio quality.

DME24 features

- High quality sound system that is both efficient and affordable.
- 8 channels analog I/O built in.
- A single Mini-YGDAI slot provides I/O expansion.
- Delivers about half the processing power of the DME64N.
- Control interfaces include RS232/422, 8 In/Out GPI, USB, Ethernet and MIDI.

DME satelite features

- Can be used in networked audio distribution systems in conjunction with the DME64N/DME24N or as stand-alone processors.
- Choose from models equipped with 8-in/8-out or 4-in/4-out audio interfaces.
- Analog mic/line inputs feature phantom power.
- DME-C models are compatible with CobraNet networks while DME-ES models are compatible with the EtherSound protocol.
- Control interfaces include RS232/422, 8 In/4 Out GPI, Ethernet and USB.

Component List

Category	NEW	Component		DME64N	DME24N	DME Satellite
		Remote Controlled Internal HA			Yes	Yes
		Delay	Long, Short	Yes	Yes	Yes
		Dynamics	Gate, Ducking, Expander, Compander, Compressor, De-Esser, Limiter	Yes	Yes	Yes
		Filter	BPF, HPF, LPF, Notch	Yes	Yes	Yes
		EQ	PEQ, GEQ	Yes	Yes	Yes
		Fader		Yes	Yes	Yes
		Pan	LR, LCR, 3-1, 5.1, 6.1	Yes	Yes	Yes
		Meter		Yes	Yes	Yes
Mixers	V3	Simple Mixer		Yes	Yes	Yes
	V3	Auto Mixer (II)		Yes	Yes	Yes
	V3*	Matrix Mixer		Yes	Yes	Yes
	V3*	Delay Matrix		Yes	Yes	Yes
I/O functions		Analog I/O			Yes	Yes
		Cascade I/O		Yes		
		MY card I/O		Yes	Yes	
	V2	CobraNet I/O (16IN/16OUT)				Yes
	V3	EtherSound I/O (16IN/16OUT)				Yes
Source		Oscillator		Yes	Yes	Yes
		Wav File Player		Yes	Yes	Yes
Routing functions		Source Selector		Yes	Yes	Yes
	V3*	Router		Yes	Yes	Yes
Crossover		Crossover		Yes	Yes	Yes
		Crossover processor (II)		Yes	Yes	Yes
Speaker Processor	V2	Speaker processor		Yes	Yes	Yes
Other functions	V3	Room Combiner		Yes	Yes	Yes
	V2	Feedback suppressor		Yes	Yes	
	V3	Ambient Noise Compensator		Yes	Yes	Yes
	V3	Audio Detector		Yes	Yes	Yes
	V3	Auto Gain Control		Yes	Yes	Yes
		Event Scheduler		Yes	Yes	Yes
		SPX		Yes	Yes	

V2: Components added in Version 2.
V3: Components added in version 3.
V3*: Component variations added in Version 3.

OPTIONS

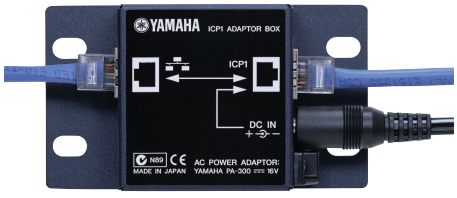
AVAILABLE MINI-YGDAI CARD SPECIFICATIONS

Model	Function	IN	OUT	Format	Res/Freq	Connector	Note
MY8-AT	Digital I/O	8	8	ADAT	24bit 44.1/48kHz	Optical × 2	Can handle 24bit/96kHz by double channel mode
MY8-AE	Digital I/O	8	8	AES/EBU	24bit 44.1/48kHz	D-sub 25pin	Can handle 24bit/96kHz by double channel mode
MY8-TD	Digital I/O	8	8	TDIF	24bit 44.1/48kHz	D-sub 25pin	Can handle 24bit/96kHz by double channel mode
MY8-AD24	A to D In	8	—	—	24bit 44.1/48kHz	TRS × 8	Replacing MY8-AD (20bit 44.1/48kHz)
MY4-AD	A to D In	4	—	—	24bit 44.1/48kHz	XLR × 4	—
MY4-DA	D to A Out	—	4	—	20bit 44.1/48kHz	XLR × 4	—
MY8-AD96	A to D In	8	—	—	24bit 44.1/48/88.2/96kHz	D-sub 25pin	—
MY8-DA96	D to A Out	—	8	—	24bit 44.1/48/88.2/96kHz	D-sub 25pin	—
MY8-ADDA96	AD/DA	8	8	—	24bit 44.1/48/88.2/96kHz	Euro-block	—
MY8-AE96S	Digital I/O	8	8	AES/EBU	24bit 44.1/48/88.2/96kHz	D-sub 25pin	Sampling Rate Converter for Input, 3 cards max
MY8-AE96	Digital I/O	8	8	AES/EBU	24bit 44.1/48/88.2/96kHz	D-sub 25pin	—
MY8-AEB	Digital I/O	8	8	AES/EBU	24bit 44.1/48kHz	BNC based on AES-3id	—
MY16-AT	Digital I/O	16	16	ADAT	24bit 44.1/48kHz	Optical × 4	Can handle 24bit/96kHz by double channel mode
MY16-AE	Digital I/O	16	16	AES/EBU	24bit 44.1/48kHz	D-sub 25pin × 2	
MY16-TD	Digital I/O	16	16	TASCAM	24bit 44.1/48kHz	D-sub 25pin × 2	
MY16-CII	Digital I/O	16	16	CobraNet	24bit 44.1/48kHz	RJ45 × 2	

See Page 102 (MINI YGDAI CARDS Page)

Inteligent Control Panel

ICP1

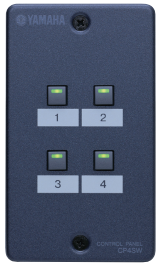


The most sophisticated of the DME series remotes, the ICP1 connects via Ethernet. Functions include scene recall and six user-defined keys at the top and bottom of the LCD screen, which can be assigned to DME parameters such as microphone and music source levels. Up to 4 sets of "pages" are available - giving up to 24 parameters. LCD display shows names and scenes and function keys in five languages - English, German, French, Spanish and Japanese.

Four switches and four faders control panel

CP4SF

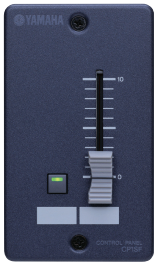
Wall-mountable remote control panel for GPI control. Uses a standard (US-type) 3 gang wall box.



Four switches control panel

CP4SW

Wall-mountable remote control panel for GPI control. Uses a standard (US-type) 1 gang wall box.



One switch and one fader control panel

CP1SF

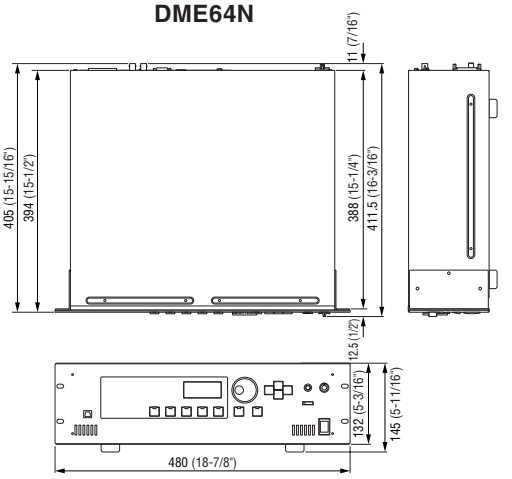
Wall-mountable remote control panel for GPI control. Uses a standard (US-type) 1 gang wall box.

Lineup of DME series

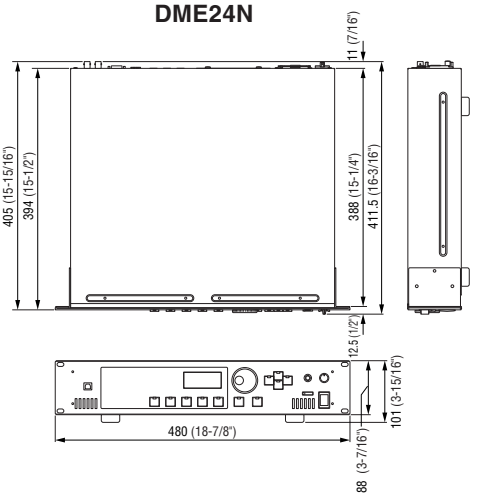
	Audio I/O		Control I/O			
	Audio I/O	Network I/O	Slot I/O	Cascade I/O	GPI I/O	AMX Duet module
DME64N	Slot	Slot	4x 16in/16out	32in/32out	16in/16out	Available
DME24N	8in/8out + Slot	Slot	1x 16in/16out	n/a	8in/8out	Available
DME8i-C	8in	16in/16out CobraNet	n/a	n/a	8in/4out	Available
DME8o-C	8out	16in/16out CobraNet	n/a	n/a	8in/4out	Available
DME4io-C	4in/4out	16in/16out CobraNet	n/a	n/a	8in/4out	Available
DME8i-ES	8in	16in/16out EtherSound	n/a	n/a	8in/4out	Available
DME8o-ES	8out	16in/16out EtherSound	n/a	n/a	8in/4out	Available
DME4io-ES	4in/4out	16in/16out EtherSound	n/a	n/a	8in/4out	Available

DIMENSIONS

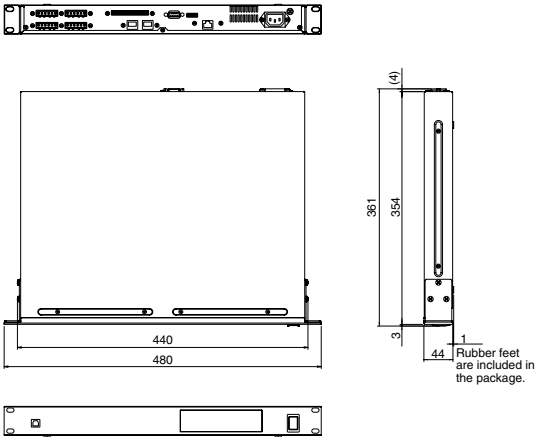
DME64N



DME24N

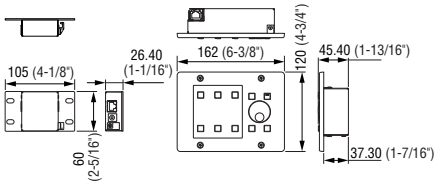


DME8i-C/ES
DME8o-C/ES
DME4io-C/ES



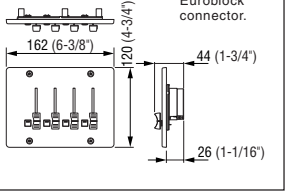
Unit: mm (inch)

ICP1



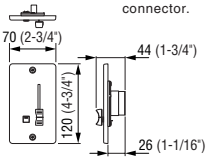
CP4SF

When using the accompanying Euroblock connector.



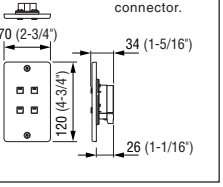
CP1SF

When using the accompanying Euroblock connector.



CP4SW

When using the accompanying Euroblock connector.



Unit: mm (inch)

Next

General specifications

	DME64N	DME24N	DME Satellite
Sampling Rate	Internal: 44.1kHz, 48kHz, 88.2kHz, 96kHz External: 44.1kHz (-10%) – 48kHz (+6%) 88.2kHz (-10%) – 96kHz (+6%)		
Signal Delay	0.5msec (Ch input to Ch output@96kHz)		
Total harmonic distortion	—	≤0.05	
Frequency response	—	0, +0.5, -1.5dB	
Dynamic Range	—	106dB	
Hum & noise level	—	-128dBu (EIN), -82dBu (Residual output noise)	
Crosstalk	—	-80dB (Adjacent channels)	
Power requirements	100V-240V 50Hz/60Hz		
Power consumption	80W	75W	40W
Dimension (W x H x D mm)	480 x 145 x 411.5, 3U	480 x 101 x 411.5, 2U	480 x 44 x 361, 1U
Weight	9.5kg	8kg	4.4kg

DME64N control and audio I/O specifications

Control I/O specifications

Terminal		Format	Level	Connector
GPI 16IN/16OUT	IN	—	0V-5V	Euro Block
	OUT	—	TTL	Euro Block
	+V	—	5V	Euro Block
ETHERNET		IEEE802.3	—	RJ45
USB		USB1.1	0V-3.3V	B type USB
REMOTE		—	RS232C/422	D-sub 9pin (male)
MIDI	IN	MIDI	—	DIN-5pin
	OUT	MIDI	—	DIN-5pin
	THRU	MIDI	—	DIN-5pin
WORD CLOCK	IN	—	TTL/75Ω(ON/OFF)	BNC
	OUT	—	TTL/75Ω	BNC

DME64N digital audio I/O specifications

Terminal		Format/Level	IN/OUT	Connector
CASCADE IN	from PM5D	RS422	32 IN	D-sub Half Pitch 68Pin (female)
	from DME64N	RS422	32 IN / 32 OUT	
CASCADE OUT	from PM5D	RS422	32 IN	D-sub Half Pitch 68Pin (female)
	from DME64N	RS422	32 IN / 32 OUT	
SLOT 1-4		Mini-YGDAI	16 IN / 16 OUT	Mini-YGDAI

DME24N control and audio I/O specifications

Control I/O specifications

Terminal		Format	Level	Connector
GPI 8IN/8OUT	IN	—	0V-5V	Euro Block
	OUT	—	TTL	Euro Block
	+V	—	5V	Euro Block
ETHERNET		IEEE802.3	—	RJ45
USB		USB1.1	0V-3.3V	B type USB
REMOTE		—	RS232C/422	D-sub 9pin (male)
MIDI	IN	MIDI	—	DIN-5pin
	OUT	MIDI	—	DIN-5pin
	THRU	MIDI	—	DIN-5pin
WORD CLOCK	IN	—	TTL/75Ω(ON/OFF)	BNC
	OUT	—	TTL/75Ω	BNC

Digital audio I/O specifications

Terminal		Format/Level	IN/OUT	Connector
CASCADE IN	from PM5D	RS422	32 IN	D-sub Half Pitch 68Pin (female)
	from DME64N	RS422	32 IN / 32 OUT	
CASCADE OUT	from PM5D	RS422	32 IN	D-sub Half Pitch 68Pin (female)
	from DME64N	RS422	32 IN / 32 OUT	
SLOT 1-4		Mini-YGDAI	16 IN / 16 OUT	Mini-YGDAI

Analog audio input specifications

Input terminal	Gain	Actual load impedance	For use with nominal	Input level Nominal	Input level Max. before clip	Connector
CH INPUT 1-8	-58dB +10dB	3kΩ	50-600ΩMics & 600ΩLines	-58dBu +10dBu	-38dBu +30dBu	Euro Block

Analog audio output specifications

Output terminal	Actual source impedance	For use with nominal	Output level Nominal	Output level Max. before clip	Connector
OUTPUT 1-8	150kΩ	600ΩLines	+4dBu -2dBu	+24dBu +18dBu	Euro Block
PHONES	15kΩ	8Ω 40Ω	75mW 65mW	150mW 150mW	Stereo Phone

Digital audio I/O specifications

Terminal	Format/Level	IN/OUT	Connector
SLOT	Mini-YGDAI	16 IN / 16 OUT	Mini-YGDAI

DME satellite control and audio I/O specifications

Control I/O specifications

Terminal		Format	Level	Connector
GPI 8IN/4OUT	IN	—	0V-5V	Euro Block
	OUT	—	TTL	Euro Block
	+V	—	5V	Euro Block
ETHERNET		IEEE802.3	—	RJ45
USB		USB1.1	0V-3.3V	B type USB
REMOTE		—	RS232C/422	D-sub 9pin (male)

Analog input specifications

Input terminal	Gain	Actual load impedance	For use with nominal	Input level Nominal	Input level Max. before clip	Connector
CH INPUT	-60dB +10dB	3kΩ	50-600ΩMics & 600ΩLines	-60dBu +10dBu	-40dBu +30dBu	Euro Block

Analog output specifications

Output terminal	Actual source impedance	For use with nominal	Output level Nominal	Output level Max. before clip	Connector
CH OUTPUT	75kΩ	600Ω	+4dB	+24dB	Euro Block

Digital I/O specifications

Terminal	Format/Level	IN/OUT	Connector
CobraNet	CobraNet / 100base-TX	16IN / 16 OUT	RJ-45 x2
EtherSound	EtherSound / 100base-TX	16IN / 16 OUT	RJ-45 x2